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DATE MAILED: 09/08/2006

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/664,883	09/22/2003	Tatsuhiro Fukuzawa	50195-388	4240	
7590 09/08/2006 McDERMOTT, WILL & EMERY 600 13th Street, N.W. Washington, DC 20005-3096			EXAMINER		
			HODGE, ROBERT W		
			ART UNIT	PAPER NUMBER	
			1745	<u>. </u>	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	Application No. Applicant(s)					
Office Action Summary		10/664,	883	FUKUZAWA ET AL.				
		Examin	er	Art Unit				
_		Robert I		1745				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)	Responsive to communication(s) file	ed on .		2				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4) 🛛	Claim(s) 1-7 is/are pending in the ap	oplication.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
6)⊠	Claim(s) 1-7 is/are rejected.							
7)	Claim(s) is/are objected to.							
8)□	Claim(s) are subject to restrict	ction and/or election	requirement.					
Applicati	on Papers							
9)	The specification is objected to by th	e Examiner.						
	The drawing(s) filed on <u>22 September</u>		accepted or b) ☐ objec	ted to by the Exa	miner.			
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including	the correction is requ	rired if the drawing(s) is ob	jected to. See 37 C	FR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:								
	1. Certified copies of the priority	documents have be	een received.					
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	t(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)								
	2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152)							
	Paper No(s)/Mail Date 6) Other:							
C Datast and T			·					

DETAILED ACTION

Information Disclosure Statement

The information disclosure statement (IDS) filed 9/22/03 has not been considered because JP 2002-75455 has already been considered in the IDS filed 5/24/04. The reference US 5,498,489 listed in the IDS filed 5/24/04 has not been considered because it was already considered in the IDS filed 11/2/05.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 4, 5 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by JP-2002-075455 hereinafter Uchino.

Uchino teaches a stacked lithium ion secondary battery comprising sheet electrodes including a collector and a polymer electrolyte positioned between the electrodes which are located on the outermost layers in such a manner so that the collectors are exposed to the outside and function as terminals, wherein said stacked lithium ion secondary battery is a plurality of batteries connected in series and said stacked battery is used in a vehicle (abstract, paragraphs [0002] and [0007]-[0011]).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 2, 3 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Uchino in view of U.S. Patent No. 5,618,641 hereinafter Arias.

Uchino teaches everything in the above 102 rejection as well as that the positive active material includes a composite oxide of lithium and a transition metal and the negative active material includes any one of a carbon and the composite oxide of lithium and transition metal (paragraphs [0019] and [0020]).

Uchino does not explicitly teach bipolar electrodes or that the stacked batteries can be arranged in parallel.

Arias teaches a bipolar battery construction having stacked batteries that can be arranged in series or parallel (abstract and column 1, lines 28-29).

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At the time of the invention it would have been obvious to a person having ordinary skill in the art to include the teaching of the Arias reference in the Uchino reference in order to provide a stacked battery configuration that would be more compact by replacing the electrodes of Uchino with bipolar electrodes which are well known in the art and also arranging the stacked batteries either in series or parallel in order to achieve the desired voltage and current output for the application at hand.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert Hodge whose telephone number is (571) 272-2097. The examiner can normally be reached on 8:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

RWH

PATRICA JOSEPH RYAN
SUPERVISORY PATRICE CANADIER